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*Stated Meeting, April 23, 1844.*

VICE PRESIDENT MORTON in the Chair.

DONATIONS TO LIBRARY.

An Essay on solid Meteors and Aërolites, or meteoric stones.

By Peter A. Browne, L. L. D. Philadelphia: 1844. From the Author.

The Birds of Long Island. By J. P. Giraud, Jr. 8vo. New York: 1844. From the Author.

Proceedings of the American Philosophical Society. Vol. 4. No. 28. June to December, 1843. From the Society.

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A letter was read from Capt. P. T. Cautley, Correspondent of the Academy, dated Serampore, October 30, 1843, announcing that he had forwarded for the Museum a donation of fossils obtained from the Siwalih Hills, lying at the southern foot of the Himalayas.

The Chairman read a letter from Colonel Abert, dated April 18, 1844, transmitting drawings of a species of *Paludina*, which he regards as new, and requesting the attention of the members to it.

Referred to a Committee, consisting of Mr. Phillips, Dr. Morton, and Mr. Conrad.

A communication was read from the Secretary of the American Philosophical Society, dated April 15, 1844, acknowledging the receipt of No. 1, Vol. 2, of the Proceedings of the Academy.

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The Committee, to whom were referred, on the 26th of March and 2d of April last, papers by Dr. F. E. Melsheimer, the Rev. Mr. Zeigler, and Mr. J. L. Le Conte, describing new species of North American Coleoptera, reported in favour of publication.

*Descriptions of New Species of Coleoptera of the United States.*

BY F. E. MELSHEIMER, of Dover, York County, Pennsylvania.\*

## HYDRADEPHAGA.

## LEIONOTUS, Kirby.

*L. compar.* Olive-black; lateral margins of the thorax and elytra, testaceous; beneath glossy black.—12 lines long, 6 lines wide. Pennsylvania and Massachusetts.

*LEIONOTUS compar*, Harris MS.

*Body* oblong-oval, olive-black, very minutely and sparsely punctured: *head*, *vertex* with a faint rufous spot: *clypeus* testaceous, with the anterior margin dusky, or black: *palpi* and *labrum* testaceous, the latter sometimes black: *antennæ* piceous: *thorax*, lateral margins broadly testaceous; anterior and posterior margins most frequently piceous, or testaceous; dorsal line obscure, abbreviated before and behind, bounded at each end by an impressed puncture: *elytra* with three fine striae of punctures; lateral margins testaceous, dusky from the middle to the apex: *posterior feet* and *body beneath* glossy black, or dark reddish-brown: *pleuræ* and *epipleuræ*, *coxæ* and *femora* of the intermediate and anterior feet, testaceous.

## THERMONECTUS, Eschscholtz.

1. *T. irroratus.* Testaceous; elytra irrorated with testaceous; clypeus, lateral margins of the thorax and a transverse band on the middle and sides of the elytra, testaceous; beneath dusky rufous, 6 l. long,  $3\frac{1}{2}$  wide. Pennsylvania.

*Dytiscus irroratus*, Melsh. Catal.

*Acilius ornatcollis*, Aubé Spec. p. 140?

*Body* oblong-oval, flat, testaceous: *head*, with the base and a transverse band black, sometimes confluent: *eyes* black: *thorax* with two transverse black bands, neither of which attains the lateral margin, anterior band linear and almost united with the posterior one by an abrupt flexure of its ends, posterior band broad and emarginate in the middle, and narrow and acute at the ends; dorsal line faintly impressed: *scutellum* black, glabrous: *elytra* blackish at the basal and sutural edges; densely irrorated with dark brown, clear at the lateral margins; a black, undulated and somewhat indistinct fascia behind the middle; a subsutural series of remote impressed punctures: *beneath* and *feet* dusky rufous: ♀ with an aciculated patch behind the base of each elytrum.

Though this species does not altogether correspond with Aubé's description of *ornatcollis*, it may nevertheless prove to be the same species.

2. *T. nimbat.* Black; clypeus, lateral margins and fascia of the thorax, sides and a fascia of the elytra, testaceous; beneath pitchy dusky reddish-brown.— $4\frac{2}{3}$  l. long,  $2\frac{1}{2}$  l. wide. Pennsylvania.

*Dytiscus nimbat.*, Melsh. Catal.

*Body* ovate, flattish, black, glossy: *head* testaceous, base, eyes, and an angulated line between the eyes, black: *palpi* testaceous: *antennæ* pitchy-rufous:

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\* Communicated by the Entomological Society of Pennsylvania.

*thorax* black, with the lateral margins and a transverse middle line, testaceous-yellow, middle line confluent with the lateral margins: *elytra* black, lateral margins and a common narrow fascia immediately behind the base, testaceous, fascia not confluent with lateral margins: three rows of remote impressed punctures: *posterior feet* and *body beneath* dull reddish-brown; intermediate and anterior feet, testaceous: *pleuræ* and *epipleuræ* similarly colored.

## HYDATICUS, Leach.

*H. meridionalis*. Black; clypeus, lateral margins of the thorax, sides of the elytra and a fascia behind the base, rufo-testaceous; beneath black.—6 l. long,  $3\frac{1}{4}$  l. wide. Georgia.

Body oblong-oval, flat, black, glossy: *head* black, with the clypeus and an obsolete spot on the vertex, rufo-testaceous: *palpi* and *antennæ* similarly colored: *thorax*, lateral margins, rufo-testaceous; anterior margin faintly dusky reddish-brown: *elytra* irrovated with testaceous towards the lateral margins, which are testaceous-yellow, and with a similarly colored fascia near the base, curving a little at the suture and attaining the lateral margin; three series of remote impressed punctures, placed on narrow, somewhat faintly defined, rufous lines: *beneath* black: *posterior feet* obscure reddish-brown; intermediate and anterior feet, rufo-testaceous: *pleuræ* and *epipleuræ* testaceous.

## AGABUS, Leach.

1. *A. terminalis*. Black, opaque, densely and very finely striate; labrum, palpi and antennæ testaceous.—Nearly 5 l. long,  $2\frac{3}{4}$  l. wide. Inhabits Pennsylvania.

*Colymbetes picipes*, Kirby in Richards' Faun. Bor. Amer. IV. 71. 6?

*Body* convex, deep black, opaque, densely and very finely striate: *head* with two faint rufous spots on the vertex: *antennæ*, *labrum* and *palpi* testaceous or rufo-testaceous: *thorax* with the basal impressed line distinct in the entire width; apical impressed line finely punctured; dorsal line indistinct: *elytra* with three series of small, remote, impressed punctures, subsutural series most distinct; tip acutely rounded: *beneath* and *posterior feet* black; *anterior feet* reddish-brown, with the *tibi* and *tarsi* lighter.

2. *A. arctus*. Black, glossy; labrum, palpi, antennæ and feet, pitchy-rufous.— $4\frac{3}{4}$  l. long,  $2\frac{1}{2}$  l. wide. Pennsylvania.

*Body* oblong-oval, convex, with the sides subparallel; deep black, tinged with bluish, shining; *head* each side, between and near the eyes, with three small indentations; epicranial spots obscure: *antennæ*, *labrum* and *palpi* pitchy-rufous: *thorax*, sides subrectilinear; posterior edge obsoletely piceous: *elytra* with the sides almost parallel to near the apex, which is acutely rounded; three series of faintly impressed punctures: slightly brassy: *venter* with the lateral margins piceous: *feet* dusky rufous.

3. *A. punctatus*. Dull testaceous, glossy; elytra with three double irregular series of punctures; pectus black.—4 l. long, 2 l. wide. Virginia.

*Body* oblong-oval, convex, dusky rufous, or dull testaceous, glossy: *head* *antennæ* and *palpi*, rufous: *eyes* glaucous, with a black central dot: *thorax* dusky on the middle; the ordinary series of punctures on the anterior and posterior margins distinct; *areæ* of the posterior angles, and posterior moiety of the lateral margins, with scattered punctures: *elytra* dusky on the disk; very

finely punctured; a sutural and three double irregular series of somewhat large punctures, the sutural series and the outer lateral one, confluent at tip: *venter* and *feet* dull reddish-brown: *pectus* black: *pleuræ* and *epipleuræ* testaceous.

LACCOPHILUS, Leach.

*L. rufus*. Rufo-testaceous, or testaceous-yellow; elytra dusky with spots.—2 l. long, 1 wide. Pennsylvania.

*Dytiscus rufus*, M. Catal.

*Body* oblong-ovate, indistinctly punctured, rufo-testaceous: *eyes* black: *antennæ*, *palpi*, *feet* and *epipleuræ*, testaceous: *elytra* clouded with brownish, excepting the lateral margins, where the general color appears in a few patches; apex acutely rounded: *beneath* rufo-testaceous.

HYDROPHORUS, Clairville.

1. *H. dichrous*. Dusky, finely punctured, slightly pubescent; head and thorax rufous; body beneath black.—Hardly 2 l. long, 1 l. wide. Pennsylvania.

*Body* ovate, finely and densely punctured, and slightly pubescent: *head* dull rufous, with an oblique shallow indentation each side between the eyes, which are black: *thorax* color of the head, with the middle of the anterior margin dusky; much and finely punctured, particularly the posterior margin and sides; the latter slightly rounded: *elytra* dark reddish-brown, paler towards the sides; finely and densely punctured, and slightly pubescent; apex acutely rounded: *antennæ*, *palpi*, *feet*, *pleuræ* and *epipleuræ*, rufous: *venter* and *pectus* black, distinctly punctured, the former with three or four lateral rufous spots.

Var.—Larger; head tinged with black; thorax nearly the color of the elytra.

2. *H. striato-punctatus*. Elytra black, with the tip and two undulated fascia yellowish-red, and with three triple series of large punctures,  $1\frac{1}{2}$  l. long,  $\frac{1}{2}$  l. wide. Pennsylvania.

Oblong-ovate, glossy, punctured: *head* fulvous, finely and densely punctured: *antennæ* and *palpi* color of the head: *thorax* similarly colored, broadly black in the middle; strongly punctured; a round indentation on the middle of the base: *elytra* black, with the sides, apex and two undulated fasciæ, yellowish red; three triple series of somewhat large punctures, obsolete before the tip; interstices almost as wide as the punctured spaces; apex acutely rounded: *beneath* and *feet* dull reddish: *postpectus* with large and sparse punctures, and profoundly grooved in the middle.

3. *H. luridipennis*. Black; elytra dusky testaceous,  $1\frac{2}{3}$  l. long,  $\frac{2}{3}$  l. wide. Pennsylvania.

*Body* subelliptic, finely punctured, black: *head* finely punctured, deep black: *thorax* with the anterior and posterior margins much punctured, the latter strongly depressed in its entire breadth; glossy; sides rounded, with the edges rufous: *elytra* sparsely and finely punctured; sides parallel from the base to near the tip, which is acutely rounded; dull testaceous: *beneath* black: *palpi* and *feet* dull red: *pleuræ* and *epipleuræ*, testaceous.

4. *H. limbalis*. Fuscous, with the thoracic and elytral margins testaceous, or rufous.— $1\frac{1}{2}$  l. long,  $\frac{3}{4}$  l. wide. Pennsylvania.

Ovate, finely punctured, glossy: *head* dull rufous: *antennæ* and *palpi* ru-

fous, the former with the terminal joints slightly dusky: *thorax* dusky reddish-brown, with the margins dull rufous: *elytra* distinctly punctured, confertly at the apex; fuscous, with the sides dark rufous, or testaceous; a slight longitudinal impression on the exterior basal angle; apex acutely rounded: *beneath* black, glossy: *feet*, *pleuræ* and *epipleuræ*, dull rufous.

5. *H. dubius*. Fuscous, minutely reticulate; head, lateral thoracic margins, two spots at the sides of the *elytra*, and *feet*, dull red.— $2\frac{1}{3}$  l. long,  $1\frac{1}{2}$  l. wide. Pennsylvania.

*Body* oblong-ovate: *head* dull rufous, minutely and densely punctured, longitudinally and deeply indented each side between the eyes: *antennæ* and *palpi* color of the head; *thorax* dark rufous, with the middle of the anterior and posterior margins deeper colored; strongly punctured, and broadly depressed at the posterior and anterior margins: sides widest in the middle, and as much narrowed behind as before: *elytra* somewhat convex, finely and densely punctured and reticulate, pubescent; four longitudinal elevated obtuse lines, obsolete in some specimens; fuscous, with the lateral margins rufous from the humerus to near the middle; sometimes a similarly coloured arcuated narrow fascia behind the base; one or two small obsolete rufous spots before the apex, which is acutely rounded: *body beneath* very convex, blackish or dark chestnut brown: *feet*, *epipleura* and *antepectus*, dull red.

HERBERTUS, Stephens.

*H. pustulatus*. Rufo-testaceous, with the base and two broad fasciæ of the *elytra* black.— $1\frac{1}{2}$  l. long, 1 l. wide. Pennsylvania.

*Dytiscus pustulatus*, Melsh. MS.

*Head*, *antennæ* and *palpi* rufo-testaceous; *thorax* similarly colored, with the middle of anterior margin dusky; very finely punctate: *elytra* distinctly and profoundly punctured, glossy; rufo-testaceous, with the basal edge, and two common broad transverse bands, black, of which the first is near the middle, and the second a little before the apex; sutural locality between the two bands broadly black: *beneath* and *feet* rufo-testaceous.

CYCLOUS, Eschscholtz—*Gyrinus*, Linn.

1. *C. opacus*. Black, opaque; beneath dark reddish-brown.—7 l. long,  $4\frac{1}{2}$  l. wide. Georgia.

*Head* at the posterior angles greenish brassy: *antennæ* black-piceous: *thorax* and *elytra* almost destitute of gloss, the latter faintly striate towards the lateral margins, striæ obtuse, obsoletely and remotely punctured, with the interstices finely and sparsely punctate; apex (♂) very slightly sinuate: *beneath* and *feet* dark reddish-brown-piceous.

Differs from *C. vittatus*, Germar, in being more broadly oval, in being deeply black, without any brassy tinge, and in the absence of the submarginal cupreous vitta.

2. *C. labratus*. Black, glossy; labrum prominent; beneath rufous or pale testaceous.— $5\frac{3}{4}$  l. long,  $3\frac{1}{2}$  l. greatest width. Pennsylvania.—Numerous.

*Gyrinus longimanus*, Melsh. Cat. 1086.

" *dispar*, Helwig?

" *labratus*, Harris Cat.?

Ovate, black, glossy; *head* and *labrum* obscure cupreous or brassy, the latter long and fringed with white hairs, and indistinctly punctured: *elytra* obtusely rounded at apex, with a minute tooth at the inner angle; *striæ* and elevated lines almost obsolete; slightly dark brassy: *beneath* and *feet* rufous, or pale testaceous.

Resembles *Americanus*, Linn, with which it might be at first view confounded, but it may be distinguished from it by its more elongated labrum, and by its less oval and more ovate form.

### BRACHELYTRA, Latreille.

ALEOCHARIDÆ, Erichson.\*

FALAGRIA, Leach.

1. *F. erythroptera*. Black; *elytra* testaceous; *thorax* subcordate, profoundly grooved in the middle; *feet* rufo-testaceous.— $\frac{3}{4}$  of a l. long. Pennsylvania.

*Body* black, very minutely punctured: *head* sparsely and minutely punctured, blackish, with a dull rufous tinge: *antennæ* nearly as long as the *thorax*, fuscous, with the three basal joints dull testaceous: *thorax* subcordate, deeply channeled in the middle, very minutely punctured: *elytra* testaceous, with the base shadowy; very minutely punctured: *tergum* deep black, minutely punctured: *feet* dull testaceous.

2. *F. globosa*. Black; *thorax* subglobose; *elytra*, mouth, base of the *antennæ* and *feet* dull testaceous.— $1\frac{1}{2}$  l. long. Pennsylvania.

*Body* blackish with sparse minute piligerous punctures: *head* suborbicular, somewhat longer than the *thorax*, sparsely and minutely punctured, dark rufo-piceous: *antennæ* fuscous, basal joint testaceous: *thorax* subglobose, narrower than the *elytra*, with an obsolete dorsal groove; sparsely and minutely punctured, color of the head: *elytra* short, transverse, minutely punctured, rufo-testaceous: *abdomen* widest towards the apex, glossy, minutely punctured: *mouth* and *feet* testaceous. It is the *Aleochara globosa*, Melsh. Catal.

Of the above two species, my collection contains of each only a single specimen.

### HOMALOTA, Mannerheim.

1. *H. flaveola*. Rufo-testaceous; *head* and fifth abdominal segment black; basal joint of the *antennæ* and *feet* pale testaceous.—1 l. long. Pennsylvania.

Pubescent: *head* narrower than the *thorax*, sparsely and distinctly punctured, black, with a dull rufous tinge, glossy: *antennæ*, basal joint only remaining, which is testaceous: *thorax* at its greatest width as broad as the base of the *elytra*, transverse; base with the posterior angle strongly rounded, anterior angles obtusely rounded, slightly deflexed; much punctured, dark testaceous with the disk darkest: *elytra* sparsely and minutely punctured, minutely transverse-rugose, dark testaceous, region of the scutellum and sides darkest: *abdomen* sparsely and somewhat coarsely punctured, rufo-testaceous, with the fifth segment and posterior margin of the fourth, black: *feet* and *mouth* testaceous.

2. *H. polita*. Black, slightly pubescent: tergum polished; elytra and feet pale fuscous, the former with the suture dusky.—1 l. long. Pennsylvania.

*Head* narrower than the thorax, black, slightly punctured: *antennæ* as long as the thorax, dark brown, basal joints piceous: *palpi* and *thorax* not as wide as the elytra, minutely and not very closely punctured, black, glossy: *elytra* longer than the thorax, indistinctly punctured, pale brown, with the suture dusky: *tergum* deep black, polished, particularly the fifth and sixth segments: *feet* pale, somewhat piceous: *body beneath* black.

3. *H. modesta*. Black, pubescent; basal joints of the antennæ, elytra and feet testaceous.—1 l. long. Pennsylvania.

*Body* fusiform, black, pubescent: *head* narrower than the thorax, suborbicular, minutely punctured, black, glossy: *antennæ* larger than the thorax, somewhat slender, brown, three basal joints and tip of terminal one testaceous: *thorax* narrower than the elytra, transverse, glossy, confertly and minutely punctured, obsoletely indented on the middle of the base: *elytra* longer than the thorax, slightly indented at the scutel; minutely punctured, rufo-testaceous, with the suture dusky: *tergum* somewhat rugulose and punctured, with the fifth and sixth segments polished and coarsely punctured; anal segment and posterior margin of the sixth segment, obsoletely rufous or piceous: *body beneath* distinctly punctured, black, with the anterior abdominal segments piceous.

#### OLIGOTA, Mannerheim.

O. *pedicularis*. Linear, piceous; feet, palpi and base of the antennæ testaceous.—3-5 l. long. Pennsylvania.

*Aleochara pedicularis*, Melsh. Catal.

*Head* narrower than the thorax, slightly indented on the front, subpubescent, minutely and not densely punctured, blackish with a rufous tinge: *antennæ* longer than the thorax, incrassated towards the tip, brownish, with the basal joint testaceous: *thorax* transverse, narrower than the elytra, angles rounded; minutely punctured, reddish-brown-piceous: *elytra* somewhat longer than the thorax, indented about the scutel, minutely punctured, dark-reddish-brown, with the apical margins piceous; like the thorax, slightly pubescent: *abdomen* black, pubescent, punctured; anal segment obsoletely rufous: *feet* testaceous.

#### GYROPHÆNA, Mannerheim.

1. *G. rufa*. Testaceous; eyes, exterior angles of the elytra, and a spot on the dorsum black.— $\frac{1}{2}$  l. long. Pennsylvania.

*Aleochara rufa*, Melsh. Catal.

Testaceous, glossy, minutely and obsoletely punctate: *head* nearly as long and wide as the thorax: *antennæ* ? *eyes* black: *thorax* not much more than half the breadth of the elytra, transverse, slightly marginate, apex and base truncate, angles obtusely rounded: *elytra* longer than the thorax, and paler than the same, with the apex and exterior angles dusky or blackish: *abdomen* more obviously punctured than the head and thorax; a dusky transverse spot on the fifth segment, terminal segment rounded: *feet* colour of the body.

2. *G. flavicornis*. Oval, depressed; antennæ, palpi elytra, feet and tergum, testaceous; head, thorax, exterior posterior angles of the elytra and a fascia on the tergum, black.—1 l. long. Pennsylvania.



*Head* slightly narrower than the thorax, faintly longitudinally indented each side between the antennæ, minutely and sparsely punctured, blackish-piceous: *antennæ* somewhat shorter than the thorax; 4-10 joints of equal thickness; testaceous: *thorax* narrower than the elytra, subtransverse-oval, distinctly marginate, minutely, though more densely punctured than the head, colour of the head, with the margins narrowly but distinctly testaceous: *elytra* nearly double as wide as long, very minutely and sparsely punctured, testaceous or rufo-testaceous, with the outer posterior angles, black, sometimes obsolete: *tergum* flat, pubescent, very minutely, almost invisibly punctured, testaceous, with the fifth and part of the sixth segment transversely black: *feet* testaceous: *postpectus* brown.

Var. *Tergum* black.

Resembles much *G. fasciata*, Say, but that species is more distinctly punctured, and has its thorax always testaceous.

3. *G. lateralis*. Piceous; head, sides of the elytra, tergum and antennæ, black; feet testaceous. Nearly 1 l. long. Pennsylvania.

*Head* narrower than the thorax, minutely and somewhat densely punctured, deep black, glossy, with the mouth piceous: *antennæ* hardly surpassing the base of the thorax; joints from the fourth to the tenth subequal, apical joint somewhat thicker than the preceding; blackish or dark brown, with the three basal joints testaceous: *thorax* narrower than the elytra, transverse, base and sides rounded; apex truncate; angles rounded, anterior ones slightly deflexed; minutely and densely punctured, reddish-brown, or brown, with the margins piceous: *elytra* nearly twice as wide as long, punctured as the thorax, pale brown-piceous, with the sides and region of the scutel dusky, darkest near the outer posterior angles: *tergum* pitchy-brown, or reddish-brown, transversely black before the apex: *feet* testaceous.

TACHYPORIDÆ, MacLeay.

TACHYPORUS, Gravenhorst.

*T. punctulatus*. Piceous, punctured; mouth and antennæ testaceous; thorax, elytra and feet, rufo-testaceous.—1 l. long. Pennsylvania.

*Head* black, glossy: *mouth* testaceous: *antennæ* longer than the thorax, with the last joint largest; testaceous: *thorax* in the middle slightly wider than the base of the elytra; minutely and confertly punctured, reddish brown, shining: *elytra* almost double as wide as long, minutely and densely punctured, pitchy-reddish-brown, shining: *abdomen* pitchy-brown, much and finely punctured, with the apex testaceous: *feet* similarly colored: *antepectus* color of the thorax.

TACHINUS, Gravenhorst.

1. *T. discoideus*. Rufo-testaceous, impunctured; anterior middle of the thorax, and region of the scutel dusky; head black.—2 l. long. Pennsylvania.

Form of *fumipennis*, Say, but a little smaller. *Head* narrower than the apex of the thorax, impunctured, deep black, shining: *mouth* and *palpi* testaceous: *antennæ* longer than the thorax, filiform; third joint nearly twice as long as the second, 4-10 joints subequal, terminal joint ovate; fuscous, with the two basal joints testaceous: *thorax* slightly wider than the base of the elytra, trans-

verse, base truncate, sides rounded and slightly marginate, angles obtusely rounded, anterior ones but slightly deflexed; impunctured, rufo-testaceous, dusky before the middle; shining: *elytra* longer than wide, impunctured, rufo-testaceous, with the disk and region of the scutel dusky; outer posterior angles rounded, with the lateral edges slightly marginate: *abdomen* brown, with the posterior margins of the segments rufo-testaceous, piceous; very minutely punctured on the anterior margins; sides of each segment with one or two long black hairs: *feet* and *postpectus* rufo-testaceous; *antepectus* testaceous.

2. *T. limbatus*. Pitchy-brown, impunctured; thorax, lateral and apical margins of the *elytra*, and *feet* testaceous; head black.—3 l. long. Pennsylvania.

About the size of *memnonius*, Grav. *Head* small, black, highly polished: *mouth* piceous: *palpi* pitchy-rufo-testaceous: *antennæ* subfiliform, joints subcylindric, third joint much longer than the second, second and fourth equal, terminal ovate; brown in the middle, four basal joints and two terminal ones, testaceous: *thorax* a little wider than the base of the *elytra*, transverse, sides rounded, base rectilinear, angles obtusely rounded; testaceous, tinged with rufous on the disk; highly polished: *elytra* quadrate, longer than the *postpectus*, minutely and irregularly rugose, brownish, with the lateral and apical margins testaceous; glossy: *tergum* punctured, punctures not crowded, dark reddish-brown, with the posterior margins of the segments somewhat piceous: *antepectus* and throat testaceous: *venter* and *postpectus* reddish-brown, the former lighter colored at apex.

#### BOLETOBIUS, Leach.

1. *B. dimidiatus*. Black, shining; base of the *elytra* and *feet* rufous. Erichson. Er. St. 1. 276. 13.

Var.—*Feet* and only the exterior basal angles rufous. *Tachyporus humeralis*, Melsh. Catal. 1325.

2. *B. venustus*. Testaceous; head, three angular spots on the *elytra* and *postpectus* black; *tergum* rufous.—1½ l. long. Pennsylvania.

*Tachinus trimaculatus*, Say, Trans. Amer. Phil. Soc. iv. p. 464. 3.

*Head* short, black, polished; *mouth* testaceous: *antennæ* hardly longer than the *thorax*, brown, with four basal joints testaceous: *thorax* slightly narrower than the base of the *elytra*, testaceous, glossy: *elytra* pale testaceous; region of the scutel with a long acute triangular black spot; exterior posterior angles, each with a similarly colored spot; dorsal series of punctures slightly impressed: *abdomen* sparsely punctured, rufous, with the posterior margins of the segments lighter colored; apex testaceous: *epipleura* and *postpectus* black: *antepectus* and *feet* testaceous.

I have changed the name *trimaculatus*, as it had been previously applied to a European species.

3. *B. binotatus*. Rufo-testaceous; head, a round spot at the exterior posterior angle of each *elytrum*, suture and *epipleura* black.—1½—1¾ l. long. Pennsylvania.

*Tachyporus binotatus*, Melsh. MS.

Doubtless only a variety of the preceding.

## STAPHYLINIDÆ, Leach.

## XANTHOLINUS, Dahlman.

1. *X. palliatus*. Black-piceous; elytra and feet pale testaceous.— $2\frac{1}{3}$  l. long. Pennsylvania.

*Staphylinus palliatus*, Melsh. Catal. 1305.

Black, shining: *head* oblong, as long as the thorax, and a little wider; base rounded, with the sides rectilinear; impressed lines between the eyes profound; sparsely and profoundly punctured, with the medial space impunctured; black, glossy: *palpi* rufous: *antennæ*, second joint somewhat longer than the third; joints 4-10 subequal, transverse; brown, with the two basal joints rufo-testaceous: *thorax* not as wide as the elytra, attenuated towards the base, where it is regularly rounded; apex obtusely rounded; black, highly polished; dorsal punctures seven or eight, lateral series about six or seven puncture; punctures very minute: *scutel* dark, sparsely punctured: *elytra* about the length of the thorax, pale testaceous, sparsely punctured, punctures placed in irregular series: *abdomen* sparsely punctured, black, with the segments posteriorly obsolete piceous: *parapleuræ* and *feet* pale testaceous: *pectus* black.

2. *X. obsidianus*. Black, glossy; dorsal series of punctures five; feet dark reddish-brown.— $3\frac{1}{4}$  l. long. Pennsylvania.

*Antennæ* a little longer than the head, second and third joints almost of equal length, joints 5-10 subequal, transverse; fuscous, with three basal joints black-piceous: *head* oblong, slightly attenuated anteriorly; sides subrectilinear; posterior angles rounded; black, shining, with numerous well impressed punctures; middle space impunctured; impressed lines between the eyes profound; *mouth* and *palpi* dark rufo-piceous: *thorax* not as wide as the head, or elytra, slightly contracted behind; angles rounded; dorsal punctures five, lateral series five-punctured; an irregular large puncture on each of the anterior angles; black, very shining: *scutel* black, with about four profound punctures: *elytra* longer than the thorax, sparsely and irregularly punctured; black, with a reddish-brown tinge, glossy: *abdomen* minutely punctured, black, glossy, with the posterior margins of the three terminal segments distinctly rufo-testaceous: *femora* and *tibiæ* dark reddish-brown: *tarsi* paler: *pectus* black: *cozæ* black-piceous.

3. *X. sanguinolentus*. Black; thorax, elytra and feet rufo-testaceous.— $3\frac{1}{2}$  l. long. Pennsylvania.

*Staphylinus sanguinolentus*, Melsh. Catal. 1310.

Elongate slender, subcylindric. *Antennæ* not much longer than the head, second joint hardly longer than the third; joints 5-10 subequal, transverse; fuscous, with two basal joints rufous, and tip of apical joint testaceous: *head* oblong, a little wider than the thorax; sides rectilinear, scarcely narrowed at apex; black, glossy, sparsely punctured, with a medial space impunctured; lines between the eyes deeply impressed; posterior angles obtusely rounded: *thorax* narrower at base than at apex; rufous glossy, with about four or five very slightly impressed, almost invisible, dorsal punctures; lateral series with about three or four very obsolete punctures; angles rounded, anterior ones, obtusely: *elytra* scarcely longer than the thorax, obsolete punctured, rufous, paler than the thorax: *abdomen* elongated, very minutely punctured, black, with the mar-

gins of the segments posteriorly testaceous, two last segments entirely testaceous: *feet* rufo-testaceous.

STAPHYLINUS, Linn., Erich.

*S. violaceus*. Black, somewhat glossy; head and thorax subcyaneous; elytra violaceous; abdomen above anteriorly griseous pubescent. Gravenhorst. Grav. Col. Micropt. p. 162. Erichs. Gen. et Spec. St. p. 392. 83.

Var. b. Head and thorax brassy; elytra cupreous; abdomen steel-blue. *Staphylinus cuprepennis*, Melsh. MS.

BELONUCHUS, Nordman.

*B. pallipes*. Black; elytra and five anterior abdominal segments rufo-testaceous.— $3\frac{3}{4}$  l. long. Pennsylvania.

*Staphylinus pallipes*, Melsh. Catal. 1301.

*Antennæ* reach to the middle of the thorax, joints 5—10 equal, terminal joint obliquely truncate at tip; fuscous, with three basal joints dark piceous, and terminal joint ferruginous: *head* subquadrate, posteriorly a little contracted, broader than the thorax, black, polished; a broad longitudinal impression between the eyes, and each side between it and the eyes two deeply impressed punctures, placed transversely; four or five other punctures above and behind the eyes: *labrum* rufo-piceous: *palpi* rufous; *mandibles* prominent, dark piceous at base, and rufous and slightly piceous at apex: *thorax* black and highly polished, narrower than the elytra; sides rectilinear, rounded at base, and truncate at apex, with the anterior angles almost square; dorsal punctures five, lateral punctures about six all deeply impressed: *scutel* piceous, punctured: *elytra* hardly longer than the thorax, rufo-testaceous, with minute prostrate hair; minutely and rugosely punctured: *wings* dusky: *abdomen* rufous, two terminal segments black; punctured, pubescent: *feet* and *postpectus* color of the elytra: *femora* beneath ciliate: *tibiæ* and *tarsi* spinous: *antepectus* black.

This species, if not the same, must be closely allied to *B. formosus* of Gravenhorst and Erichson.

PHILONOTUS, Leach.

1. *P. harrisii*. Black, polished: elytra fuscous-brassy; thorax, sides sub-sinuate; four dorsal punctures—5 l. long. Pennsylvania.

*Staphylinus picipes*, Harris MS.

Size and form of *St. splendens*, Fab. *Antennæ*, three basal joints only remaining which are piceous; second and third joints subequal: *head* (♂) sub-orbicular, wider than the thorax, black, polished; four slightly impressed, and transversely placed punctures between the eyes, and a few dispersed ones behind these organs: *thorax* slightly narrower than the elytra, and hardly contracted behind; base together with the posterior angles rounded; sides sub-sinuate; apex truncate; anterior angles deflexed; black, very shining; four dorsal punctures, the fourth is minute and placed on the anterior edge; lateral punctures about three or four: *scutel*, large, black, minutely and confertly punctured: *elytra* transverse, obscure brassy, pubescent, confertly punctured: *abdomen* black, with a steel-blue reflection, confertly punctured, pubescent: *pectus* and *feet* black.

This species is perhaps the *P. æneus* of some authors, which is stated to occur frequently in North America. I have seen only one specimen of the above species. The name *picipes* is pre-occupied in this genus.

2. *P. lætulus*. Black, polished; thorax, four anterior abdominal segments, and femora rufous.—4 l. long. Pennsylvania.

*Staphylinus lætulus*, Say, Trans. Amer. Phil. Soc. IV. 449-4.

*Antennæ* shorter than the thorax, slightly incrassated towards the tip; third joint one fourth longer than the second; brown with three basal joints pitchy black: *head* wider than the thorax, suborbiculate, widest across the eyes; black, glossy, with four transversely placed punctures between the eyes, two on each side and deeply impressed, behind these and near to each eye, four or five smaller ones: *thorax* not as wide as the elytra, slightly contracted behind, strongly rounded at base, and truncate at apex, sides subrectilinear, with the anterior angles slightly deflexed; dorsal punctures, with a displaced apical one, four; lateral punctures two or three; rufo-sanguineous, highly polished: *scutellum* minutely and rugosely punctured, dark rufous: *elytra* longer than the thorax, black, with a tinge of blue, punctured, and clothed with minute hairs: *abdomen* rufous, three terminal segments black, with a steel-blue reflection; punctured: *femora* and *antepectus* rufo-testaceous; *knees*, *tibiæ* and *tarsi* black or piceous.

*Staphylinus blandus*, Grav., which Dr. Say conjectured to be identical with *lætulus*, though closely allied to it, is certainly distinct from the same. The name which Dr. Say proposes for the above species is adopted.

3. *P. pulchellus*. Rufo-testaceous; head, elytra and three terminal segments of the abdomen, black; thorax with four dorsal punctures in each series. 2½ l. long. Pennsylvania.

*Staphylinus pulchellus*, Melsh. Catal. 1314.

*Head* suboval, not much narrower than the thorax, with the sides almost parallel; deep black and highly polished; four transversely posted punctures between the eyes, of which the two intermediate ones are almost obsolete; punctures above and behind the eyes, sparse and well impressed: *antennæ* not as long as the thorax, with the second and third joints subequal; joints 5—10, equal; reddish-brown, apical joint pale ferruginous, two basal joints testaceous: *thorax* somewhat narrower than the elytra; base, including the posterior angles, obtusely rounded; sides almost straight; apex truncate, with the anterior angles obtusely rounded and deflexed; dorsal punctures eight, four in each series; lateral punctures four or five; reddish testaceous: *scutellum* dark-rufous, punctured: *elytra* brownish-black, longer than the thorax, rugosely punctured, pubescent: *abdomen* rufous, with the three terminal segments black, and with a steel-blue reflection; minutely and densely punctured, pubescent: *postpectus* black: *feet* pale testaceous; *tibiæ* and *tarsi* spinose.

Var. b. Anterior third of the thorax black or brownish.—*Staphylinus thoracicus*, Melsh. Catal. 1300.

4. *P. nanus*. Black; basal joints of the antennæ, palpi and feet, dusky testaceous; elytra fuscous; dorsal punctures three—1 l. long. Pennsylvania.

*Antennæ* almost or quite as long as the thorax; second and third joints subequal; joints 4—10 equal, apical joints obliquely emarginate at tip; fuscous,

two basal joints testaceous: *head* suborbiculate, narrower than the thorax, deep black and very shining; four transversely placed punctures between the eyes, the other ordinary punctures almost obsolete: *palpi* dusky testaceous: *thorax* some narrower than the elytra, slightly contracted before, base with the posterior angles rounded, sides subparallel, apex truncate, with the anterior angles rounded and deflexed; deep black and highly polished and somewhat piceous; six dorsal punctures, or three in each row; lateral punctures few: *scutel* piceous, minutely punctured: *elytra* longer than the thorax, brown, paler towards the apex; densely and transversely rugosely punctured; pubescent: *wings* hyaline: *abdomen* black, minutely punctured; pubescent: *feet* testaceous.

Var. b. Head deep black; thorax pale reddish-blown-piceous; elytra pale brown; abdomen similarly colored, with the posterior margins of the ventral segments rufous.—*Staphylinus pallescens*, Melsh. MS.

5, *P. brevis*. Short, black; feet testaceous; five dorsal punctures.—2½ l. long. Pennsylvania.

*Staphylinus dimidiatus*, Say, Trans. Amer. Phil. Soc. IV. p. 450. 6.

— *brevis*, Melsh. MS.

Wide for its length. *Antennæ* scarcely longer than the thorax; third joint very slightly longer than the second; joints 4—10 equal in thickness, terminal obliquely emarginate at tip; fuscous, two basal joints rufo-testaceous, terminal joint slightly ferruginous: *head* orbiculate, slightly narrower than the thorax, black, glossy; a few punctures above and behind, and the ordinary ones between the eyes: *mouth* dusky testaceous: *thorax* somewhat narrower than the elytra: base with the posterior angles obtusely rounded; sides parallel; apex truncate, with anterior angles rounded and hardly deflexed; dark reddish-brown-piceous, glossy; ten dorsal punctures or five in each series; lateral punctures about four or five: *scutel* pitchy-black, punctured: *elytra* slightly longer than the thorax, fuscous, finely and densely punctured, and almost imperceptibly pubescent; *wings* dusky white: *abdomen* minutely and confertly punctured, and densely pubescent; posterior margins of ventral segments broadly rufous: *feet* rufo-testaceous: *postpectus* color of the elytra.

If Gravenhorst did not state that the elytra of his *anthrax* were destitute of pile I should not hesitate to consider the above species to be the same. The name *dimidiatus* is preoccupied in this genus.

6. *P. cinctus*. Elytra, basal joint of the antennæ and feet, pale testaceous; thorax and abdomen reddish-brown, the former with five dorsal punctures.—2 l. long. Pennsylvania.

*Staphylinus cinctus*, Melsh. Catal. 1306.

*Head* orbiculate, slightly narrower than the thorax, black, glossy, with the ordinary punctures between and behind the eyes: *antennæ* fuscous, two basal joints testaceous: *palpi* and *mouth* dusky testaceous: *thorax* almost as wide as the base of the elytra, slightly narrowed and truncated before; sides subrectilinear; base with the posterior angles obtusely rounded; anterior angles slightly deflexed; dark reddish-brown, glossy; dorsal punctures, in the present specimen, five punctures in the right series, and four in the left: lateral punctures about five: *scutel* color of the thorax, punctured: *elytra* pale testaceous, hardly longer than the thorax, very minutely and not densely punctured; pu-

bescent: *abdomen* with the sides nearly parallel; brown, with the posterior margins of the segments dull rufous; minutely punctured, pubescent: *feet* testaceous: *pectus* reddish-brown: *coxæ* testaceous.

7. *P. ruficornis*. Reddish-brown; antennæ, palpi and feet rufo-testaceous; thorax with five dorsal punctures.— $2\frac{1}{2}$  l. long. Pennsylvania.

*Antennæ* half as long again as the head; second joint a little longer than the third; joints 4—10 equal; rufous, two basal joints, mouth and palpi, paler: *head* subquadrate, posteriorly rounded; sides subrectilinear; very slightly narrower than the thorax, black, shining, with the ordinary punctures small, but well impressed, the two intermediate ones of the four, between the eyes, very remote from each other: *thorax* dark rufo-piceous, slightly narrower than the elytra, almost as wide as long, not contracted anteriorly; base with the posterior angles rounded; sides rectilinear; apex truncate, with the anterior angles rounded, and slightly deflexed; ten dorsal punctures, five in each row, the first and second remote from each other: *scutel* coarsely punctured: *elytra* nearly as long as the thorax, brown, with the margins obsoletely rufous or testaceous; punctured and rugulose, slightly pubescent: *abdomen* obscure fuscous, minutely and densely punctured, pubescent; posterior margins of the ventral segments dull rufous: *feet* rufo-testaceous: *postpectus* black: *tibiæ* spinulose.

8. *P. niger*. Deep black; head suborbiculate; thorax with five dorsal punctures.—3 l. long. Pennsylvania.

Black, somewhat piceous: *antennæ* hardly as long as the thorax; second and third joints subequal; joints 4—10 equal in thickness; black, with two basal joints piceous: *head* suborbiculate, slightly contracted behind, almost as wide as the thorax, polished; the ordinary punctures between, above and behind the eyes distinct: *palpi* piceous: *thorax* some narrower than the elytra; base, including the posterior angles, rounded; sides parallel; apex truncate, anterior angles rounded; shining, with ten dorsal punctures, five in each series, the apical one remote from the others and somewhat out of range; lateral punctures about four or five; punctures not deeply impressed: *elytra* wider than long, and hardly longer than the thorax, somewhat coarsely and rugosely punctured, slightly pubescent: *abdomen* minutely and densely punctured, slightly pubescent; posterior margin of the penultimate ventral segment obscure rufous: *feet* black or dark brown, with the tarsi paler; *tibiæ* spinose: *tarsi* simple, slender.

9. *P. fusiformis*. Fusiform, black; two basal joints of the antennæ, elytra, and feet rufous; thorax with six dorsal punctures.—3 l. long. Pennsylvania.—Very abundant.

*Head* narrower than the thorax, suborbicular, black, shining, with the ordinary punctures small: *antennæ* fuscous, third joint slightly longer than the second, first and second joints rufous, third obsoletely rufo-piceous: *palpi* rufo-testaceous: *thorax* a little narrower than the elytra, subquadrate; base with the posterior angles obtusely rounded; sides parallel; apex truncated, with the anterior angles rounded, and scarcely deflexed; black, shining, with twelve dorsal punctures, six in each series; lateral punctures five or six; punctures small: *elytra* quadrate, longer than the thorax, rufous, finely rugulose and punctured, slightly pubescent: *abdomen* elongated, gradually narrowed to the

tip: black or very dark brown, with the posterior edges of the segments obsolete rufous; densely and finely punctured; pubescent: *feet* rufo-testaceous.

#### OXYPORIDÆ, Erichson.

##### QUEENUS, Leach.

1. *Q. bardus*. Black; thorax pitchy dark reddish-brown; base of the antennæ, palpi and feet, dull rufous.— $2\frac{3}{4}$  l. long. Pennsylvania.

*Antennæ* almost half as long again as the head, dark ferruginous; third one-fourth longer than the second; two basal joints rufous: *head* suborbiculate, narrower than the thorax, black and highly polished; two impressed punctures behind, and one at the inner margin of each eye; *palpi* dull rufous: *thorax* as wide as the base of the elytra, slightly contracted before; convex, with the base and sides rounded; apex truncate, with the anterior angles square and deflexed; dark reddish-brown piceous, shining; six small dorsal punctures, three in each row, the third of which is placed on the anterior margin, and is somewhat remote from the others, and also a little aside of the row; lateral punctures about four, the nearest one to the dorsal punctures is placed triangularly with the two hindermost ones: *scutel* piceous, impunctured; *elytra* black-piceous, with sparse irregular punctures; a distinct sutural striæ; glabrous: *abdomen* brownish-black, finely punctured; pubescent: *feet* dark rufous; anterior tarsi moderately dilated.

2. *Q. terminatus*. Black; terminal abdominal segments rufous; feet piceous.— $3\frac{1}{2}$  l. long. Pennsylvania.

*Staphylinus hæmorrhoidalis*, Melsh. Catal. 1302.

*Head* subovate, not as wide as the thorax, black and very shining; four large punctures, one on the inner margin and another behind each eye: *thorax* wider than long, and wider than the elytra, slightly contracted before: base with the posterior angles and sides regularly rounded; apex truncate, with the anterior angles almost square, deflexed; black, very shining; three small equidistant dorsal punctures in each series, posted before the middle; lateral punctures two or three; *scutel* black, opaque, impunctured: *elytra* distinctly and sparsely punctured, and transversely rugose; black, very finely pubescent: *abdomen* black, with a steel-blue reflection, two terminal segments rufous, punctured and finely pubescent: *feet* piceous, with a rufous tinge; *tarsi* almost rufous anterior pair strongly dilated: *postpectus* sparsely and profoundly punctured.

##### OXYPORUS, Fabricius.

1. *O. dimidiatus*. Testaceous, head, thorax, exterior angles of the elytra, and pectus, black.— $3\frac{3}{4}$  l. long. Pennsylvania.

*Antennæ* short, and as in *vittatus*: *head* and *thorax* as in *vittatus*: *elytra* testaceous, with only the posterior outer angles black: *abdomen* rufous, with a blackish or brown spot on each side of the fifth and sixth segments beneath: *feet* testaceous; *pectus* black.

Resembles very much one of the varieties of *vittatus*, but it is destitute of the black suture of the elytra, which is a constant character in all the varieties of that species.

2. *O. brevis*. Testaceous; eyes and exterior posterior angles of the elytra, black.— $3\frac{1}{4}$  l. long. New York.



Wide for its length, and its abdomen comparatively shorter than in any of the known native species. *Antennæ* not attaining the apex of the thorax, pale brownish, with three basal joints, and palpi testaceous: *head* testaceous, with a rufous tinge, and with its sides obsoletely brownish; front immaculate; glossy: *mandibles* rufo-testaceous, blackish towards the tips: *thorax* color of the head with the sides, and basal edge obsoletely brown, and obsoletely dusky on the middle of the anterior margin: *elytra* paler than the thorax, with the apical exterior angles blackish; sculpture as in *lateralis*: abdomen rufo-testaceous, faintly maculate with brownish, three spots on each segment: glossy: *venter*, *feet* and *postpectus*, pale testaceous.

This species bears some resemblance to *lateralis*, Grav., and did not the outlines of its body differ much from that species, it might be conjectured to be a variety of it. The present specimen is a ♀ and the only one in our collection.

*O. fasciatus*, Melsh. Catal. 1320. Testaceous; sides and front of the head, anterior and posterior margins of the thorax, suture and exterior apical angles of the elytra, parapleuræ, antepectus, and fifth and sixth abdominal segments, black.—Variety of *O. vittatus*, Grav.

#### PÆDERIDÆ, Erichson.

##### LATHROBIUM, Gravenhorst.

*L. longiusculum*, Grav. This species varies in its size, but we have never met with a specimen of 6 lines long, as some entomologists state it to be. The usual length is a little less or more than three lines.

##### STILICUS, Latr.—*Rugilus*, Leach.

*S. angularis*, Erichson, differs from *dentatus*, Say, chiefly in the thorax, which is almost glabrous, whilst that of *dentatus* is distinctly longitudinally rugulose.

*S. tristis*. Black; thorax finely carinated; antennæ and feet rugous; posterior margin of the elytra testaceous  $2\frac{3}{4}$  l. long.—Pennsylvania.

Form of *dentatus*, Say, but considerably larger. *Antennæ* rufous or rufo-testaceous: *head* much wider than the thorax, orbiculate, densely and minutely longitudinally rugose, black, opaque: *mouth* and its organs piceous: *labrum* wide, dilated at the sides: *thorax* much narrower than the elytra, contracted before and behind; convex, finely and confertly rugose; raised dorsal line fine, glabrous; brownish-black, opaque: *elytra* scarcely longer than the thorax, pitchy-brown, with the apical margin dull testaceous; punctured and somewhat inequal: *abdomen* black, with the posterior margin of the sixth segment beneath, and very obsoletely above, rufous, and like the head and trunk, minutely pubescent: *feet* rufous: *pectus*, and head beneath, black, minutely and somewhat closely punctured.

#### STENIDÆ, Erich.

##### STENUS, Latreille.

*S. erythropus*. Black; palpi whitish; feet rufous; abdomen marginate, 2 l. long. Pennsylvania.

*Læstris fuscipes*, Melsh. Catal. 1345.

*Head* wider than the thorax; a wide and shallow excavation between the eyes, with an obsolete longitudinal carina in the middle; black, coarsely punctured: *antennæ* ? *palpi* whitish: *thorax* much narrower than the elytra, more contracted behind than before, with the sides rounded; more strongly punctured than the head; an obsolete, impressed dorsal line, black: *elytra* black, punctured as the thorax: *abdomen* deep black, punctured, and narrowly margined: *feet* rufous, with the tip of the femora and base of the tibiae brownish.

Differs from *geniculatus*, Say, in being smaller and less robust; in being less profoundly and coarsely punctured, in having the thorax channelled in the middle, and chiefly in having the sides of the abdomen margined. From *femoratus*, Say, which it somewhat resembles, it differs, aside of other characters, in being much larger.

#### OXYTELIIDÆ, Leach. Er.

##### OXYTELUS, Grav.

1 *O. basalis*. Black; base of the antennæ and feet rufo-testaceous; margin of the thorax crenulate.— $2\frac{1}{4}$  l. long. Pennsylvania.

Size, form and sculpture of *rugosus*, Fab. *Antennæ* much longer than the head; third joint a little longer than the second; fuscous, four first joints dark rufo-testaceous: *head* as wide as the thorax: widest at base; black, slightly piceous, profoundly but not densely punctured, and with numerous longitudinal fine wrinkles, more numerous at the sides than on the middle: *palpi* dark rufo-piceous; *mandibles* pitchy-black: *thorax* almost orbicular, as wide as the elytra, somewhat densely and profoundly punctured, and finely wrinkled; dorsum trisulcate, nearly in the form like the letter M; lateral margins depressed, with the edges obsoletely and finely crenate; black, somewhat piceous: *elytra* a little longer than the thorax, black with a rufo-piceous tinge, particularly towards the base; profoundly punctured, and longitudinally finely wrinkled: *abdomen* black, faintly rufous at apex; indistinctly punctured: *feet* rufo-testaceous.

The European analogue of this species is the *O. rugosus*, Fab., from which it does not essentially differ.

2. *O. pygmæus*. Black; elytra dark ferruginous; feet pale testaceous.— $\frac{3}{4}$  l. long. Pennsylvania.

*Antennæ* a little longer than the head, incrassated towards the tip, brown, with the base piceous: *head* (♀) slightly narrower than the thorax, minutely longitudinally wrinkled each side: *palpi* dull testaceous: *thorax* slightly narrower than the elytra, with the base and sides rounded, and apex truncate; faintly tri-sulcate, and minutely longitudinally wrinkled; black, opaque: *elytra* dull ferruginous, almost black, indistinctly longitudinally wrinkled: *abdomen*, black, shining: *feet* pale testaceous.

3. *O. parvulus*. Black; elytra dark fuscous; base of the antennæ piceous.— $\frac{1}{2}$  l. long. Pennsylvania.

*Antennæ* a little longer than the head, incrassated towards the tip, fuscous, with the base piceous: *head* a little narrower than the thorax, longitudinally impressed each side, and longitudinally, and almost invisibly wrinkled; vertex, as is usual, grooved: *thorax* a little narrower than the elytra, slightly contracted behind; base obtusely rounded; sides slightly rounded, with the apex

truncate; almost invisibly longitudinally wrinkled; dorsum tri-sulcate, intermediate groove entire, with the lateral ones curved, and abbreviated before the middle; like the head black, opaque: *scutellum* piceous: *elytra* dark fuscous or blackish, minutely longitudinally wrinkled: *abdomen* deep black, glossy: *feet* testaceous.

This species, or the preceding one, may prove to be the *O. exiguus* Erichson.

4. *O. mærens*. Black; base of the antennæ, palpi and feet, testaceous; *elytra* dark reddish-brown-piceous.— $1\frac{3}{4}$ —2 l. long. Pennsylvania.

Elongate. *Antennæ* longish; second and third joints subequal in length, joints 5—10 equal in thickness; fuscous, with three basal joints, dull testaceous: *head* smaller than the thorax, pitchy-black, minutely and longitudinally rugose, and as is usual, profoundly impressed between the eyes and grooved on the vertex; *mouth* and *palpi* dull testaceous: *thorax* contracted behind, with the base and posterior angles obtusely rounded; sides subrectilinear from before the middle, anteriorly strongly arcuated; apex truncate, with the anterior angles slightly rounded; dorsum tri-sulcate, intermediate groove entire, well impressed, with the lateral grooves very slightly arcuated, well impressed; pitchy-black, and minutely and longitudinally wrinkled; *elytra* longer than the thorax, and wider than long, finely and longitudinally wrinkled; dusky reddish-brown, with the sides and apical edge blackish: *abdomen* deep black, glossy: *feet* testaceous.

This species presents many traits of resemblance with *O. Pennsylvanicus*, Erichson, but in that species the dorsal grooves are almost obsolete or effaced, whereas in *mærens* they are very profound and obvious.

#### PIESTIDÆ, Erich.

PROGNATHA, Latr.—*Siagonum*, Kirby.

*P. americana*. Rufo-testaceous; thorax with four faintly impressed punctures, two on each side of the middle.— $2\frac{1}{4}$  l. long. Inhabits Pennsylvania.

Depressed, rufo-testaceous. *Antennæ* more than half the length of the body, rufo-testaceous; first joint longer and thicker than any of the other joints, sub-cylindric, and truncate at tip; second and third joints obconic, the former one-third shorter than the latter; remaining joints cylindric; two first joints glabrous: *head* larger than the thorax, with numerous and very minute punctures; front excavated; vertex depressed; each side between the antennæ with a short incurved, acute horn, which converge at their tips; glossy: *mandibles* exerted, falcate, mutic, acute, and black at tip: *thorax* at apex wider than the elytra, contracted posteriorly, with the sides slightly rounded, and finely marginated; base truncate, with the posterior angles almost square; apex truncate, with the anterior angles rounded; punctured as the head; four small, faintly impressed punctures, two on each side of the middle, placed quadrangulately; a fine impressed dorsal line, not extending beyond the middle: *elytra* longer than the thorax, quadrate, with numerous fine longitudinal wrinkles; *wings* white: *abdomen* somewhat darker colored than the elytra, sparsely and coarsely punctured; penultimate segment as the two preceding ones together; pubescent: *feet* color of the body.

This species is confessedly an important addition to the Insect Fauna of the United States, particularly as but another species is known or described, viz., *Quadricornis*, Kirby. The species is very rare.

## OMALIIDÆ, Leach, Er.

## OLOPRUM, Erichson.

*O. emarginatum*, Er.—*rotundicolle*, Say. In our presumed specimens of this species, the thorax at base is almost truncate, the apex but slightly emarginate, the lateral margins but slightly piceous, the apex of the elytra, and the posterior margins of the abdominal segments not piceous; apex of abdomen testaceous, and feet rufous, corresponding in every other respect with Say's description of *O. rotundicolle*. Not rare, occurs every spring on the blossoms of Red Maple.

## ANTHOBIUM, Leach.

*A. dimidiatum*. Testaceous; abdomen black.— $1\frac{1}{3}$  l. long. Pennsylvania.

*Silpha testacea*, Melsh, Catal. 344.

*Head* each side between the eyes, with a short, obsolete, longitudinal impressed line; minutely and faintly punctured, testaceous with the base dusky: *antennæ* incrassated towards the tip, a little longer than the thorax, testaceous, slightly pubescent; *palpi* testaceous: *thorax* some narrower than the elytra, transverse; sides rounded, with the base and apex truncate; anterior angles rounded, posterior ones almost square; an obsolete, impressed dorsal line, rather most distinct before the posterior margin; minutely and sparsely punctured, and finely wrinkled, testaceous, longitudinally dusky in the middle: *scutel* testaceous: *elytra* twice as long as the thorax, densely and strongly punctured, testaceous: *abdomen* black, or black brown, slightly piceous, glabrous, acuminate at apex: *pectus* and *feet* testaceous; *tarsi* dilated.

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*Descriptions of New North American Coleoptera.*

By REV. D. ZIEGLER, of York, Pa.\*

## OXYPRUS, Fabr.

*O. pulcher*. Reddish-brown; elytra, each with a broad oblique whitish band, commencing at the humeral angle and terminating on the posterior margin near the suture. Length nearly 4 lines.

*Body* reddish-brown, polished. *Head* large, with numerous dilated punctures on the occiput, punctures sometimes confluent; three slight indentations nearly on a line between the eyes; a somewhat prominent, polished, suborbicular elevation on the exterior region above the eyes, which is included by a distinct semicircular impression proceeding from the inferior portion of the neck and running nearly parallel with the posterior margin towards the vertex, then curving regularly downward and outward till it reaches the eye, where it becomes obsolete. *Mouth* pale honey-yellow. *Mandibles* very robust, as long or longer than the head; rather much arcuated; dark reddish-brown, their

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\* Communicated by the Entomological Society of Pennsylvania.

bases on the inner side yellowish. *Antennæ* and *palpi*, dark reddish-brown. *Thorax* with an abbreviated impressed dorsal line, and a double punctiform impression each side behind the middle; a regular series of distant punctures near the anterior margin. *Elytra*, each with a broad oblique whitish band proceeding from the humerus and terminating on the posterior margin near the suture; region of the scutel, suture, and lateral margins from near the humerus to the tip, dark reddish-brown, the brown colour extending inwards on the posterior angle half way to the suture; an indented subsutural line, obsoletely punctured; two abbreviated deeply punctured striæ on the middle, of which the anterior one is obsolete. *Tergum* dark-brown, with a piceous tinge towards the tip. *Feet* and beneath dull yellowish.—Western Pennsylvania.

DIACANTHUS, Latr., Germ.

*D. splendens*. Brownish-cupreous, polished; epipleura and feet rufous. Length  $5\frac{1}{2}$  lines.

*Body* dark-brownish, with a cupreous tinge, highly polished. *Head* coarsely and confluent punctured, with a frontal impression. *Antennæ* hairy, slightly serrated, not attaining the base of the thorax; second joint very short, little more than one-third the length of the third which is a little longer than the fourth joint. *Thorax* subquadrate, hardly longer than broad; dorsal line obvious; obsoletely indented each side behind the middle; posterior angles rather prominent, tinged with rufous, a little excurved; punctures large, profound, smaller on the disk. *Scutel* suborbicular. *Elytra* broadest behind the middle, abruptly narrowed towards the tip; interstitial spaces slightly convex, numerous and minutely punctured. *Epipleura* rufous. *Feet* rufous. Western Pennsylvania.

SCYRTES, Latr.

*S. suturalis*. Black; suture of the elytra in the middle fulvous; lateral thoracic margins white;  $1\frac{1}{2}$  lines long:  $\frac{3}{4}$  line wide.

Black, slightly and finely downy. *Thorax* with the lateral margins and area of posterior angles whitish. *Elytra* finely and densely wrinkled, with a short, common, linear fulvous spot on the middle. Beneath black. *Labrum* piceous. *Antennæ*, *knees*, *tibia* and *tarsi*, testaceous. *Femurs* blackish. Pennsylvania.

HYDROCERA, Newm.

*H. longicollis*. Black; thorax elongated; elytra with a yellowish subsutural vitta on the basal half. Length  $2\frac{1}{2}$  lines: breadth about  $\frac{1}{2}$  line.

*Body* deep black, shining, elongated-linear, with numerous erect, cinerous hairs. *Head* not indented between the eyes. *Mouth* beneath, *pulpi*, *antennæ*, and *labrum* yellow. *Thorax* narrow, elongated, and but slightly dilated a little beyond the middle. *Elytra* abbreviated, covering about two-thirds the length of the abdomen; densely and confluent punctured; a pale yellowish subsutural vitta, commencing at the base and terminating a little before the middle. *Feet* yellow. Beneath black. Pennsylvania.

SPERCHEUS, Fabr.

*S. tessellatus*. Reddish-brown; head and thorax deeply punctured, the

latter slightly indented each side near the base; elytra with punctured striæ, sprinkled with black. Length  $3\frac{1}{2}$  lines: breadth  $2\frac{1}{2}$  lines.

*Body* reddish-brown. *Head* obscurely brown, flat, deeply punctured. *Labrum* short, obtusely emarginate. *Thorax* piceous, the sides pale; punctured; an indentation each side, near the basal margin, and a slight impression on the middle, near the base. *Scutel* black, forming an oblong triangle, with a few scattered profound punctures. *Elytra* reddish-brown, sprinkled with irregular black spots; region of the scutel immaculate; punctate-striate; alternate interstitial lines slightly elevated behind. *Antennæ*, *palpi*, and *feet*, dark-brown. Pennsylvania.

#### HYDROPHILUS, Fabr.

*H. ovalis*. Black, oblong-oval; antennæ and palpi piceous. Length 15 lines.

*Body* black, with a greenish tinge, oblong-oval. *Head* with irregular impressed punctures each side, on the front and before the eyes; orbits punctured. *Clypeus* deeply emarginate. *Antennæ* and *palpi* piceous. *Thorax* with impressed punctures near the anterior angles; a series of punctures each side, and a few each side before the middle, near the anterior margin. *Elytra* with four series of punctures, of which the third is abbreviated anteriorly, and the fourth double; lateral margins finely and closely punctured. *Pectus* bifid. *Postpectus* with minute yellowish hairs. *Sternum* canaliculate before; posterior half with a slightly impressed line. Beneath black; venter with an obsolete rufous spot on each segment. Pennsylvania.

This species somewhat resembles the *H. triangularis* of Say, but may be readily distinguished from that insect by the more oval form of its body.

#### COPROBIUS, Latr.

*C. obtusidens*. Black; clypeus not profoundly emarginate at tip; teeth of the tibiæ short, obtusely rounded. Length 9 lines: breadth 6 lines.

*Body* deep black. *Clypeus* not profoundly emarginate at tip, tip but slightly reflected; lateral edge, from the tip to beyond the middle, subrectilinear. *Antennæ* and *palpi* reddish-piceous, club of the former dull rufous. *Elytra* striated; striæ impunctured; interstitial spaces with numerous small, elevated points. *Teeth* of the anterior tibiæ proportionally short, obtusely rounded; the posterior tooth rather small, and widely separated from the others. Pennsylvania.

A very rare insect. It is larger than the *C. volvens*, F., and differs from it in colour, being of a deeper black, and in the denticulation of the anterior tibiæ, the terminal tooth being more remote from the two anterior ones, leaving a wider space which is occupied by four small roundish tubercles instead of two, as is the case in that species. It is also distinguished from the *volvens* in having the clypeus less rounded, less deeply emarginated, and much less acutely angulated at each end of the emargination.

#### PANDARUS, Meg.

*P. brunneus*. Reddish-brown, hairy; eyes black; antennæ and feet dull rufous. Length rather more than 2 lines.

*Body* oval, a little oblong, somewhat depressed; dark reddish-brown; covered

with erect, rather long, yellowish hairs. *Head* irregularly punctured, transversely indented on the front; a somewhat rounded, rufous elevation each side before the eyes and over the insertion of the antennæ. *Antennæ* rufous; second and third joints very short. *Clypeus* rufous. *Labrum* and *palpi* rufous, the former transversal. *Eyes* black, prominent, rather large. *Thorax* transverse, abruptly narrowed each side near the posterior angles; lateral margins arcuated, a little reflected; posterior angles terminating in a short acute tooth; numerous and coarsely punctured. *Scutel* triangular, rather large, impunctured. *Elytra*, punctures rather large, irregular, and sometimes confluent. *Feet* dull rufous. Pennsylvania.

#### CISTELA, Fabr.

1. *C. marginata*. Blackish-brown; thorax pale-sanguineous, with a blackish spot on the disk; lateral margin and suture of the elytra yellowish-red. Length 6 lines.

*Body* blackish-brown. *Head* blackish, densely and minutely punctured; a transverse indentation between the antennæ. *Maxillary palpi* piceous. *Antennæ* dark-brown, tip of the terminal joint yellowish-red. *Thorax* pale-sanguineous, with a blackish spot on the disk; yellowish-sericeous; posterior angles nearly rectangular; an obsolete longitudinal dorsal impression, which is more apparent on the middle. *Scutel* dusky at base, tip paler. *Elytra* with minute yellowish hairs; striated; striæ finely punctured; interstitial lines rather flat; lateral margins and suture, yellowish-red. *Feet* and beneath dark-brown. Pennsylvania.

2. *C. erythroptera*. Black; antennæ, palpi, feet and elytra, testaceous. Length 4 lines.

*Cistela erythroptera*, Melsh. Catal.

*Head* blackish, with a dilated transverse impression between the antennæ. *Labrum* piceous. *Thorax* black, with an obsolete impressed dorsal line; a transverse dilated impression on the middle near the basal margin, and an indentation each side near the lateral margin; posterior angles subacute. *Elytra* pale-testaceous, somewhat sericeous; striated; striæ finely punctured; interstitial lines convex. Beneath shining black. Pennsylvania.

#### PEDILUS, Fisher.

1. *P. nigricans*. Bluish-black; two first joints of the antennæ, labrum, and base of the palpi, pale-yellowish. Length 3 lines.

*Body* bluish-black, polished, with yellowish-cinereous hairs. *Head* black, shining; front with an oblique, dilated impression each side between the eyes. *Antennæ*, two first or basal joints, pale-yellowish. *Palpi*, at base, pale-yellowish, terminal joint fuscous. *Labrum* and *mouth* beneath, dull yellowish. *Thorax* blue-black, polished; an abbreviated, impressed dorsal line; a dilated impression near the basal margin before the scutel; basal margin pale piceous. *Elytra* bluish-black; rugosely punctured; punctures transversely confluent on the middle. *Feet* and beneath bluish-black; tarsi paler. Pennsylvania.

2. *P. hæmorrhoidalis*. Elytra blue, with yellow tips; thorax, tip of the abdomen, and feet, yellow.

*Pedilus hæmorrhoidalis*? Dejean's Catal. Length 3 lines.

*Head* black, polished. *Antennæ* reddish-brown, two basal joints yellowish. *Labrum*, *palpi*, and *mouth* beneath, yellow. *Thorax* yellow, with a few

scattered yellowish-cinereous hairs. *Elytra* blue, somewhat rugose, with obvious dilated punctures furnishing minute hairs; each with a polished, yellowish, slightly elevated spot at tip. Beneath blue. Tip of the abdomen and feet yellow. Pennsylvania.

3. *P. ruficollis*. Blackish-blue; thorax, antennæ and feet, rufous. Length rather more than 3 lines.

*Body* blackish-blue, with short, yellowish-cinereous hairs. *Head* deep black, polished. *Thorax* pale rufous, polished. *Elytra* blackish-blue; rugosely punctured, punctures transversely confluent on the middle. *Feet* pale rufous. Beneath blackish-blue. Pennsylvania.

4. *P. marginicollis*. Blackish; thorax yellow, with a black spot on the middle.

*Pedilus marginicollis*. Dr. Melsheimer in lit. Length nearly 3 lines.

*Body* blackish, with pale yellowish hairs. *Head* deep black, shining, with a transverse indentation between the eyes. *Antennæ*, two first or basal joints, yellow. *Palpi* dull yellowish, terminal joint fuscous. *Mouth* beneath yellowish. *Clypeus* at tip, and labrum, pale piceous. *Thorax* honey-yellow, polished, with a blackish spot on the disk. *Elytra* bluish-black; rugose; densely punctured, punctures transversely confluent. *Feet* fuscous; tip of the tibiæ, and tarsi, pale yellowish. *Beneath* deep black.

Var. a. Thorax entirely destitute of the thoracic spot. Pennsylvania.

#### MONOHAMMUS, Meg.

*M. tomentosus*. Brown; the entire surface of the body, antennæ, feet, and greater part of the elytra, whitish tomentose, the latter spotted or interrupted with brown. Length ♀ 14 lines.

*Body* brown, densely covered with fine whitish prostrate hairs. *Head* with a longitudinal impressed line between the antennæ; edge around the antennæ, much elevated, somewhat spinose on the inner side. *Mouth* beneath, and *clypeus*, honey-yellow, the latter brownish at tip. *Mandibles* black. *Thorax* with a rather long, obtuse, somewhat elevated spine each side behind the middle. *Scutel* yellow. *Elytra* whitish tomentose, spotted or interrupted with brown; behind the middle, a large, irregular, transverse, brown spot nearly reaching the suture. Pennsylvania.

#### CEDIONYCHIS, Latr.

*Ce. ? hispida*. Blackish, hairy; antennæ, basal portion pale rufous, tip dark brown or blackish; feet yellowish, varied with piceous. Length 2 lines.

*Body* blackish, invested with numerous, rather long, erect, blackish and yellowish-cinereous hairs. *Head* obviously punctured, with an abbreviated longitudinal impression on the front. *Antennæ*, six first or basal joints pale rufous, tip dark-brown or blackish. *Thorax* oblong, narrow, rather broadest behind, somewhat rounded; lateral margins decurved, rectilinear; anterior portion not wider than the head; unequal; coarsely and confluent punctured, punctures larger and more obvious near the basal margin. *Scutel* forming an oblong triangle, yellowish-sericeous. *Elytra* with regular series of large, rather distant, profound punctures. *Femora*, posterior pair, above blackish-piceous, below rufous; anterior and intermediate pairs piceous, the base and apex paler; tibiæ and tarsi reddish-yellow, varied with piceous. Pennsylvania.



*Descriptions of New Species of North American Coleoptera.*

BY JOHN L. LE CONTE.\*

1. *GALERITA dubia*. Nob. Length 9 lines, breadth  $3\frac{1}{5}$  lines.

Head black, frontal impressions oblong, shallow ; palpi and first joint of the antennæ ferruginous ; remainder of the latter brown.

Thorax ferruginous ; posterior transverse impression tolerably marked, straight ; longitudinal line very slight : basal impressions shallow. Elytra black, striæ impunctate, beneath dark brown ; legs and under part of the thorax ferruginous. Inhabits Georgia.

Differs from *G. Le Contei*, Dej., in not having a red spot on the head, and in the basal impressions of the thorax, which are shallower ; from *G. bicolor*, Drury, (*G. Americana*, Dej.,) in having the longitudinal line of the thorax less impressed, and the posterior transverse impression more distinct. The thorax is also less retracted posteriorly : it differs from all the other species in having the striæ of the elytra impunctate.

2. *PLOCHIONUS vittatus*. Nob. Length 4 lines, breadth  $1\frac{3}{4}$  lines. Ferruginous ; tips of mandibles and eyes black ; frontal impressions oval, very deep : thorax covered with transverse wrinkles ; transverse impressions scarcely visible ; longitudinal line entire, deeply marked ; basilar impressions deep, oblong, and transverse : a wide and deep fovea impressed on each side near the middle of the thorax ; lateral margin widely depressed towards the posterior angles.

Elytra, with a broad black sutural vitta, and a lateral spot of the same colour behind the middle : striæ deep, impunctured. Body and legs dark ferruginous. Inhabits Florida.

3. *APTINUS americanus*. Dej. Cat. Length  $5\frac{3}{4}$  lines ; breadth  $2\frac{1}{2}$  lines.

Head, thorax, and legs ferruginous. Antennæ ferruginous, growing dusky towards the extremity. Head smooth, with a deep and long longitudinal impression between the eyes ; eyes black. Thorax sparsely punctured ; transverse impressions none : longitudinal line well marked ; with a few transverse wrinkles on each side.

Elytra bluish-black, costæ smooth ; intervals deep, wide, and punctured. Sternum ferruginous ; abdomen very dark brown, almost black. Inhabits Georgia.

Resembles much in form and size *BRACHINUS quadripennis*, but it is narrower, and the elytra are less parallel.

4. *BRACHINUS strenuus*. Nob. Length  $7\frac{3}{4}$  lines ; breadth  $3\frac{1}{2}$  lines.

Head, antennæ, palpi, thorax, sternum, and legs ferruginous ; abdomen dark brown, with a reddish spot in the middle of the upper part : head sparsely punctate, particularly at the posterior part. Thorax scarcely wider than the head, thickly punctured.

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\* Communicated by the Entomological Society of Pennsylvania.

Elytra bluish-black, punctured; interstices of the costæ narrow at the bottom. Inhabits Georgia. (Common.)

Resembles both the *fumans*, Fabr., and *librator*, Dej.; but the thorax is narrower and more rounded anteriorly than the former, and less so than the latter. The head is larger and the frontal impressions broader than in either; the antennæ are thicker and darker than in the *fumans*, but want the dark spots observable on those of the *librator*. The elytra are wider, the interstices are deeper than in either, and wider than in the *fumans*.

5. *BRACHINUS Le Contei*. Dej. Cat. Length 6 lines; breadth  $2\frac{3}{5}$  lines. Inhabits Georgia.

Resembles the *viridipennis*, Dej., and *perplexus*, Dej.; the former in size and form, the latter in form, but is easily distinguished by the frontal impressions, which are shallow and punctate; in the *viridipennis* they are still shallower and more punctate: in the *perplexus* they are rugous; the first two joints of the antennæ and base of third and fourth, are ferruginous; tips of these last are brown; in both the remainder is brown, but in the *perplexus* the third only is brown at the tip. The thorax is wider before; the anterior angles are sharper and more projecting. Elytra deep blue to blackish blue. Abdomen deep reddish brown.

6. *BRACHINUS cyanopterus*. Dej. MS. Length  $5\frac{2}{3}$  lines; breadth  $2\frac{3}{5}$  lines. Inhabits New York.

Resembles the *cordicollis*, but is larger, and easily distinguished by the deeper and brighter blue of the elytra: the antennæ are likewise ferruginous, without spots, growing darker towards the extremity. The thorax is rather narrower anteriorly, and the costæ of the elytra are more apparent. Abdomen red, sides brownish.

7. *BRACHINUS viridis*. Nob. Length 6 lines; breadth  $2\frac{3}{4}$  lines. Inhabits Georgia.

Resembles the *viridipennis*, but is narrower; the thorax is not so much rounded on the sides, the basal impressions are more distinct. The elytra are of a paler and brighter green, more thickly and coarsely punctured; the costæ are more strongly marked. The first two joints of the antennæ and a spot on the third are ferruginous; in the *viridipennis* the first three and sometimes the four are ferruginous, with a small brown spot on the third and fourth.

8. *BRACHINUS neglectus*. Nob. Length  $5\frac{1}{2}$  lines; breadth  $2\frac{3}{4}$  lines. Inhabits Georgia.

Somewhat resembles the *quadripennis*, but is larger and proportionably broader; the elytra are of the same bluish-black colour, but less rounded at the anterior angles, they are more distinctly costate, and the intervals are narrower. The first two joints of the antennæ are ferruginous, and the rest brown, whilst in the *quadripennis* the base of the third is also ferruginous. The thorax is also more retracted posteriorly, and the anterior angles more acute; the basal impressions are prolonged and extend almost to the middle of the thorax.

9. *BRACHINUS tenuicollis*. Nob. Length 6 lines; breadth  $2\frac{3}{4}$  lines.

Also resembles the *quadripennis*, but the elytra are more blue, and the first five costæ of the elytra are more apparent than the rest, and are impunctured on the top. The first two joints of the antennæ and base of the third are ferruginous, the rest brown. Sides of the head coarsely punctured, frontal impressions longer, more rugous and more punctured. The thorax is more retracted posteriorly, wider and more rounded anteriorly.

10. *BRACHINUS patruelis*. Dej. Cat. Length  $4\frac{1}{2}$  lines; breadth  $1\frac{1}{8}$ . Inhabits New York.

Resembles somewhat *B. cordicollis*, but the frontal impressions are longer; first three joints of antennæ and base of fourth ferruginous; the third has a small brown spot at the extremity, and the remaining joints are also brown. In the *cordicollis* the two first and base of the third only are ferruginous: thorax much wider and more rounded anteriorly. Elytra bright blue, costæ slight, and much less elevated than in the *cordicollis*.

11. *SCARITES otus*. Nob. 12. *S. ephialtes*. Nob. 13. *S. intermedius*. Nob. 14. *S. affinis*. Nob. 15. *S. subterraneus*. Fabr. 16. *S. affinis*. Nob. (As we intend publishing a monograph of these species in a few weeks, it will be useless to add descriptions here.)

17. *CLIVINA impressifrons*. Nob. Length  $3\frac{1}{4}$  lines; breadth  $\frac{7}{8}$  line.

Dark rufous: front with three wide and deep longitudinal impressions, the middle one abbreviated at the ends, so as to form an oblong fovea. Thorax oblong, rounded behind; but little convex; longitudinal line deeply impressed. Elytra narrower than the thorax, parallel: striate, striæ punctate: third interval with three impressed points. Inhabits New York.

Resembles *C. rufescens*: but differs from it in being larger, in having the front deeply impressed, and the elytra narrower than the thorax.

18. *CLIVINA convexus*. Nob. Length  $2\frac{1}{2}$  lines; Breadth  $\frac{5}{8}$  line.

Head and thorax black; the latter convex and round: anterior transverse impression scarcely visible: median line distinct.

Elytra piceous, with a large transverse rufous sutural spot near the extremity: deeply striate; striæ strongly punctate, with but one impressed point on the third interval, near the extremity. Inhabits Georgia.

Resembles the *C. bipustulatus*; but is readily distinguished by its rounded thorax and the very slight anterior transverse impression.

19. *REMBUS striatopunctatus*. Nob. Length  $6\frac{3}{8}$  lines; breadth  $3\frac{1}{4}$ .

Black, shining: palpi black, with the extremity of each articulation rufous; antennæ blackish-brown: frontal impressions deep, incurved at the middle, as in the *impressicollis*. Medial line of the thorax deeply impressed, and abbreviated at both ends: transverse impressions indistinct, basal ones deep, with an inwardly deep cut furrow beyond the middle.

Elytra striate; striæ punctate: the second one incurved at the tip: the third and fourth and fifth and sixth united at the tip; interstices convex, with an impressed point on the middle of the third rudimental striæ, a mere point between first and second striæ. Inhabits Pennsylvania. Found at Carlisle by S. F. Baird.

Differs from *R. impressicollis* in the transverse impressions of the thorax which in that species are very distinct, also in the basal impressions and in the striæ of the elytra being very distinctly punctured: in the *impressicollis* they are quite smooth. It is a much larger insect.

20. *REMBUS assimilis*. Nob. Length  $5\frac{3}{8}$  lines; breadth  $2\frac{1}{4}$  lines.

Black, shining; palpi and antennæ dark ferruginous brown: head as in the preceding: medial line of the thorax deep: anteriorly abbreviated; posteriorly reaching to the base; posterior transverse impression deeply marked in the middle: striæ of the elytra punctate: the second not incurved; third interval with an impressed point in the middle: an indistinct rudiment of a striæ at the base between the first and second. Inhabits Georgia.

At first sight this insect strongly resembles an *anisodactylus*, but it possesses all the characters of the genus to which I have referred it.

21. *CHLÆNIUS congener*. Nob. Length  $7\frac{1}{2}$  lines; breadth 3 lines.

Head and thorax coppery, with a greenish tint, the punctures on the latter large and confluent. The thorax obcordate, slightly narrowed behind; medial line deeply impressed, abbreviated anteriorly, and not reaching posteriorly farther than the posterior transverse impression, which is very deep and strongly marked: basal impressions very deep, oblong, rather inclining inwards: elytra black, with a tinge of blue, striæ scarcely punctate; body beneath black, palpi, first three joints of antennæ and legs ferruginous. In other respects same as *C. cobaltinus*. Inhabits Georgia.

Closely resembles *C. cobaltinus*; but is easily distinguished by the transverse posterior impression of the thorax, which is much deeper. The medial line does not extend so far backwards, and the elytral striæ are scarcely punctate.

22. *CHLÆNIUS patruelis*. Dej. Cat. Length  $6\frac{1}{4}$ —7 lines; breadth  $2\frac{3}{8}$ —3 lines.

Above green, beneath black; antennæ and legs ferruginous. Head coarsely punctured, particularly at the posterior part; frontal impressions distinct. Thorax very coarsely punctate, much longer than wide, narrowed before and behind, subcordate, much curved on the sides: medial line on account of the close and deep punctures not very apparent: basal impressions deep and triangular. Elytra much wider than the thorax, covered with a short reddish pubescence; striæ punctured; intervals plane, covered with fine and close punctures. Inhabits Georgia.

Resembles slightly the *sericeus*, but is distinguished at first sight by its narrow thorax.

23. *BADISTER terminalis*. Nob. Length  $2\frac{1}{8}$  lines; breadth  $\frac{7}{8}$  lines.

Head, thorax, and body beneath black: palpi, antennæ, coxæ and legs ferruginous, frontal impressions of the head, very large and shallow. Thorax smooth, obcordate, the angles rounded, the posterior less than the anterior: transverse impressions well and deeply marked the anterior incurved: longitudinal line entire and deep: rounded posterior margin a little elevated and reddish. Elytra smooth, piceous, with the margin suture, and large spot at the base ferruginous, gradu-

ally changing into the piceous colour of the remainder. Striæ very indistinctly punctured. Third interval with three impressed points rather indistinct. Inhabits New York.

24. *BADISTER testaceus*. Nob. Length 2 lines; breadth  $\frac{3}{4}$  lines.

Smooth, shining, testaceous, inclining to piceous on head and elytra: joints of the antennæ gradually increasing in thickness to the extremity: frontal impressions deep and rounded. Thorax obcordate, lengthened, scarcely wider than the head; anterior angles rounded, posterior acute, anterior transverse impression tolerably marked, posterior one obsolete: longitudinal line well marked and entire: basal impressions deep, oblong. Elytra wider than the thorax, parallel, almost plane, deeply striate, striæ impunctured, sides of the striæ covered with small transverse wrinkles a little oblique, which cutting the striæ, give them an almost reticulated appearance. Inhabits Pennsylvania.

25. *BADISTER micans*. Nob. Length  $4\frac{1}{2}$  lines; breadth  $1\frac{3}{8}$  lines.

Black: head, rhinarium, and upper lip testaceous, palpi ferruginous, with a black spot on the last joint: antennæ brown, the first two joints rufous: frontal impressions rather larger, distinct: an impressed point near each eye. Thorax plane black, margined with reddish brown: the margin sinuate near the posterior angles: base rugous: transverse impressions tolerably distinct. Longitudinal line deeply marked. Basal impressions large and deep. Elytra piceous, iridescent, not sinuate at the extremity; striæ tolerably deep, impunctured: intervals broad and plane. Third interval with two impressed points. Body beneath piceous, legs testaceous. Inhabits Georgia.

This insect differs very much in its general appearance from all the species of this genus, and it may perhaps be necessary hereafter to separate it from the genus in which I have placed it.

26. *OONIS picipes*. Nob. Length  $5\frac{1}{2}$  lines; breadth  $2\frac{1}{4}$  lines.

Resembles the *americanus*, but is smaller; the palpi and antennæ are entirely piceous; the thorax is more convex; the posterior transverse impression is scarcely visible; the longitudinal line almost obsolete: basal impressions very shallow and indistinct: the elytra are more deeply striate; and the striæ are impunctate; the third interval with two impressed points: underside of the body black; legs piceous. Inhabits Georgia.

27. *PRISTONYCHUS americanus*. Nob. Length 5-6 lines; breadth  $1\frac{3}{4}$  lines.

Apterous; black, shining; beneath smooth; palpi, antennæ, and legs dark ferruginous; frontal impressions tolerably deep and slightly rugous; thorax, oblong, almost square, wider than the head, narrowed behind, the anterior angles projecting, posterior ones rounded; covered with very slight transverse undulating wrinkles: lateral margin elevated posteriorly; the base cut almost square: anterior transverse impression small, incurved; posterior deeply marked; mesian line deep, abbreviated at each end by the transverse impressions, the anterior of which cuts it at right angles: basal impressions oblong, deep, slightly rugous.

Elytra wider than the thorax, lightly convex; not sinuated at the extremity; deeply striate; striæ impunctured, with two impressed points on the third inter-

val, near the second striæ: rudimental striæ at the base, short and straight; epipleuræ with a longitudinal elevation near the base. Inhabits Georgia.

28. *CALATHUS distinguendus*. Nob. Length  $5\frac{1}{4}$  lines; breadth 2 lines.

Piceous black, shining, smooth; palpi, antennæ and legs ferruginous; front with a small impression at the base of the antennæ, and a linear one near the eyes: thorax smooth, with some indistinct transverse undulating wrinkles, quadrangular, narrowed before, the anterior angles projecting and a little rounded, base cut square, so as to make the posterior angles almost right, lateral margin rufo-piceous, a little curved, dilated, and depressed posteriorly; anteriorly; anterior transverse impression tolerably distinct: posterior well marked; medial line slight, abbreviated by the transverse impressions; with the anterior of which it forms an angle, so as to leave a well defined triangular depression in front; basal impressions slight, scarcely distinct from the depressed base of the thorax.

Elytra striate, striæ impunctured, with three impressed points on the third interval, the two upper ones near the third, the lower one close to the extremity of the second striæ. Inhabits Georgia.

Larger than *C. gregarius*, which it very much resembles; the thorax, and its margins are proportionally much wider, more curved, and more reflexed; and it wants the impressed point on each side of the thorax near the margin, which is very apparent in the *gregarius*: the anterior transverse impression is strongly marked, whereas in *C. gregarius*, it is much less apparent. It is also much darkened beneath.

29. *ANCHOMENUS Le Contei*. Dej. Cat. Length  $9\frac{1}{2}$  lines; breadth 2 lines.

Very much resembles the *A. extensicollis*; but differs in the thorax being wider, and more rounded: the basal impressions are longer, perpendicular to the base, and curving upwardly and outwardly; whilst in the *extensicollis* they are oblique, so as to make them wider at the base; from this last circumstance the middle of the base between the impressions is much wider in *A. Le Contei* than in *A. extensicollis*.

It may, however, prove to be nothing more than a variety.

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The Committee, to whom was referred the following paper, by Mr. Haldeman, reported in favour of publication:

*Descriptions of Insects, presumed to be undescribed.*

By S. S. HALDEMAN.

*LEUCOSPIS integra*. Black, covered with pale yellowish pile; tegulæ and legs yellow. ♂ 5 millim. long.

♂ Antennæ yellowish beneath: thorax scabrous, with a spot of yellow pile posteriorly, wings translucent: legs yellow, except the basal half of the first and second pairs of femora, posterior femora black tipped with yellow

*HEDYCHRUM janus*. Brilliant, above violet, beneath uniform green; wings tipped with fuliginous. 5 mill. long.

Head coarsely punctured, green margined with violet behind, antennæ black : anterior margin of the thorax green, punctured ; metanotum coarsely punctured, violet : abdomen polished, violet purple, having a green reflexion, changing its position with the light : legs bright green, changing to violet above, tarsi fuscous.

*TYPHLOPONE pallipes*. Minutely punctured, dull reddish brown, terminal segments of the abdomen, antennæ and mandibles, paler ; legs testaceous. 6 mill. long.

Head subquadrate, narrowing posteriorly ; mandibles widest in the middle, direct, with the tip incurved, inner margin coarsely serrate-dentate : pronotum inflated, with an impressed mesial line : abdomen divided into three principal segments, of which the first is subglobular, the second considerably larger, conical, largest posteriorly, terminal segment of equal diameter with the preceding, but twice as long, with a dark indistinct transverse band about the middle : provided with a sting. Found in old stumps in June.

*EUMENES substricta*. Black, minutely punctured, abdominal stricture very deep, with a narrow ring of yellow at the extremity of the basal segment above, 8 lines long.

Head large, wings steel blue, with a small yellow spot below the base of the anterior pair ; thorax lightly margined with yellow anteriorly ; tarsi fuscous. Somewhat larger than *E. verticalis*, Say, and distinguished by the almost uniform black colour, and the base of the abdomen being fusiform, on account of the depth of the incisure.

*SCAPHINOTUS flammeus*. Reddish brown, head slightly transversely rugose between the antennæ ; pronotum proportionally wider, and the profile flatter above when viewed laterally than in *S. elevatus* : elytra coarsely punctate striate, sinuate at tip, pale brilliant violet, with the margin, and several tarnished spots of green. 10 lines long.

An imperfect specimen in the cabinet of the Academy, from Marietta, Ohio. Distinguished from *S. elevatus* by the wider prothorax and elytra, and lighter colour. Not having seen a female of the latter, I am unable to point out its distinction from the proposed species.

*SCARITES substriatus*. Black, shining ; antennæ, palpi, and tarsi dark testaceous : head large, nearly as wide as the thorax ; mandibles wide at the base, inner superior ridge curved with two flexures, intermediate groove very wide at the base : elytra wide, subparallel, convex, with 6 wide distant inconspicuous striæ, and a 7th submarginal one obsolete. 13 lines long.

*SCARITES distinctus*. Shining black, palpi, antennæ, and tarsi obscure testaceous, frontal impressions profound, groove of the mandibles narrowing gradually : elytra wider than the prothorax, slightly narrowed towards the base, flattened, with 6 slightly crenate striæ, and a 7th obsolete, 3d with a puncture near the base, another towards the extremity, and a 3d puncture at the extremity of the 3d interstice. 10½ lines long. Hab. Georgia ? Prof. Hentz.

*SCARITES subterraneus*, Fabr. General character of the preceding, mandibular groove narrow and deep, left one continued nearly to the extremity of

the mandible : elytra narrower than the prothorax, striate and slightly crenate, especially towards the base, and in a good light.  $8\frac{1}{2}$  lines long.

Var. *a.* Finely and regularly punctate-striate throughout.

Var. *b.* Striæ filled with numerous fine punctures.

*AGRION venerinotata.* ♂ Yellow, eyes reddish brown, connected by a broad black band, a transverse black spot upon the clypeus: thorax black above, with a narrow dorsal line of yellow: abdomen marked above with 3 black ♀-shaped crosses, basal segment dark polished green above, continuing to the middle of the 2d segment, where it ends in a point; wings short. 10 lines long.

*TERMES frontalis.* *Soldier.* Amber color, front deeply notched, a small eye-like tubercle at the inner base of the tentacles: mandibles suddenly incurved, rufo-testaceous at base, changing into black towards the tip; antennæ 15-jointed: legs pale, with the unguis darker. 3 lines long. *Male?* Black, region of the mouth, and legs (except the femora) pale yellowish.  $4\frac{1}{2}$  lines long to the extremity of the wings, which are longer than the body, and extend beyond it more than half their length. Found in or beneath logs, the winged individuals appearing in May in Pennsylvania.

*Correction.*—*Hoplia modesta*, Proceedings, Vol. I., p. 304, is apparently identical with Germar's *Melolontha mucorea*.

### *Meeting for Business, April 30, 1844.*

VICE PRESIDENT MORTON in the Chair.

The Committee, to whom was referred a paper by Dr. Hallowell, describing new species of African reptiles, reported in favour of publication.\*

The Committee on Colonel Abert's communication on a fresh-water univalve, found in the vicinity of Washington, D. C., reported it to be the *Paludina vivipara* of authors.

The Academy then proceeded to ballot for Members and Correspondents, with the following result:

MEMBER.

J. Fisher Leaming, of Philadelphia.

CORRESPONDENT.

Rev. D. Ziegler, of York, Pennsylvania.

\* The publication of this paper is necessarily deferred until the next number.